Program Planning Template

2014 - 2017 Programs

GY 4 - 6; **EY 7 - 9**

Program Applicable	e for: Ameren ComEd DCEO <u>X</u> _			
	Nicor People's Gas/North Shore Gas _			
Program Name	Public Sector New Construction (2014 through 2017)			
Objective	Support greater energy efficiency in newly constructed public buildings throug measures beyond the applicable commercial energy efficiency building code	h adoption of		
Target Market	Public sector buildings including units of Local Government, Municipal Corpor schools, Community Colleges, State Universities, State/Federal buildings	ations, K-12		
Program Duration	06/01/2014 through 05/31/2017 (three-year EEPS plan period)			
Program Description	The New Construction (NC) program will provide grants for new and majorly renovated public sector buildings that exceed the applicable Illinois Energy Conservation Code for Commercial Buildings. The buildings will receive incentives based on electrical and natural gas savings for beyond code design based on projected energy savings using either prescriptive or custom incentive calculations. In order to encourage the use of whole building energy modeling, buildings that seek LEED Silver, Gold or Platinum, or otherwise provide an engineered computer building energy model, shall also be eligible for a High Performance Design Bonus on a square foot basis, based on the percentage beyond the code the project achieves (10%, 20%, etc.).			
Eligible Customers	For electric energy savings incentives, the project must receive electric delivery service from Ameren Illinois or ComEd. For natural gas energy savings incentives, the project must receive natural gas delivery service from Ameren Illinois, Nicor Gas, Peoples Gas, or North Shore Gas.			
Eligible Measures	Prescriptive New Construction Incentives:			
	 Lighting Measures: Per watt/sf reduced (LPD reduced beyond code maximum) 	allowed		
	 Envelope Measures: Per improved (increased) R-Value beyond code minimum (reduced U-Factor below code maximum) 			
	 Mechanical Measures: Varies—Per beyond code required minimum efficiencies for heating and cooling equipment 	energy		
	 Water Heater Measures: Varies—Per beyond code required minimu efficiencies for water heating equipment 	ım energy		
	 Kitchen Equipment Measures: Varies—Per installation of ENERGY equipment 	STAR® qualified		
	 The total list of measures can be made available upon request. DCE right to revise the list of eligible measures as needed in accordance market development, technology development, EM&V results, and p implementation experience. 	with current		
	Custom New Construction Incentives:			
	For non-prescriptive projects, kWh and/or therm saving totals (from whole model or spreadsheet calculation).	e building energy		
	High Performance Design Bonus: For non-prescriptive projects with whole building energy model savings c	alculations		

Program Name	Public Sector Ne	w Construc	tion (2014 through 2017		
Implementation Strategy	DCEO will work closely with K-12, higher education, and local government associations to seek participants in the Public Sector New Construction Program. K-12 associations include: Illinois State Board of Education, Illinois Association of School Boards, Illinois Principals Association, Illinois Association of School and Business Officials, and Illinois Association of School Administrators. Higher education associations include: Illinois Community College Board, Illinois Institute of Colleges and Universities, the Illinois Green Economy Network, and Illinois Board of Higher Education among others. Local government associations include: Illinois Municipal League, Illinois Association of County Board Members and Commissioners, Township Officials of Illinois, and the Metropolitan Mayors Caucus. DCEO will also work with the Capital Development Board to identify state building projects that could participate in the Program.				
Marketing Strategy	The program will be marketed through statewide K-12, higher education, and local government associations as well as the building industry (the American Society of Heating, Refrigerating and Air-Conditioning Engineers; Illinois Society of Professional Engineers; American Institute of Architects; Associated Professional Engineering Consultants; Construction Specifications Institute; U.S. Green Building Council; energy service companies, and vendors, etc.). Meetings and workshops will be held to inform potential applicants and other interested parties involved in building construction.				
Incentive Levels	The energy incent annual basis.	ives will be s	et at a level that reflects t	he avoided cost of that energy on an	
		Construction	on Incentive Levels:		
	beyond code required minimum performance metrics. Reductions/ improvements listed in the table below are in comparison to the applicable code metrics. Selected energy savings measures with the greatest potential for persistence over the life of the building (i.e. envelope measures) have been targeted for enhanced prescriptive incentive levels.				
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Program Name	Public Sector New Construction (2014 through 2017)						
	0 1 N						
Incentive Levels (cont.)	Custom New C						
	Custom New Construction Incentives						
					Saved Natural Gas		
		\$0.12 / kWh		\$2.00 / the	erm		
	High Performa	nce Design Bonı	JS:				
	The building en	ergy model bonus	incentives w	ill be set at i	ncreasing levels based on h	now far	
					or Commercial Buildings tha		
					ints to design the buildings t		
					right to negotiate different	incentive	
	levels if the inst	itution is under rul	es that alread	dy require a	chieving beyond the code.	_	
		Hiç	h Performar				
			Building Pe		Building Performance		
	Ener	rgy Cost Savings IECC 2009/ ASHRAE			IECC 2012/ ASHRAE		
	- F0/	L I I .	90.1 2007		90.1 2010 required	_	
		beyond code	\$0.00 \$0.20		\$0.40 / sf	_	
		beyond code beyond code	\$0.20		\$0.60 / sf \$0.80 / sf	_	
		beyond code	\$0.40		\$1.00 / sf	_	
		beyond code	\$0.80		\$1.00 / sf	=	
		beyond code	\$1.00		\$1.40 / sf		
		Iso reserves the right to modify the incentive levels as needed in accordance with					
						with	
		ent market development, technology development, EM&V results and program ementation experience.					
	implementation	ехрепенсе.					
Milestones	• Febru	February 2014: Commission approval					
	 Marc 	h-May: Final prog	ram design a	nd protocol	development		
	• June						
Estimated Participation	DCFO expects	DCEO expects significant increases in participation in the program from the entire public sector.					
		The recent economic climate in the public sector had reduced the amount of new construction					
					construction in the coming		
					se in construction, we projec		
					n program participation base		
					cipation and mix of building		
		us levels beyond t been used for pla			vation Code may vary. The	tollowing	
	estimates nave	been used for pla	ming purpos	C3.			

Estimated Budget

Budget Information Total Program (Gas + Electric)					
Budget Category	Year 1	Year 2	Year 3	Total	
Program	\$150,000	\$150,000	\$150,000	\$450,000	
Implementation					
Portfolio Admin	\$111,111	\$111,111	\$111,111	\$333,333	
Incentives	\$850,000	\$850,000	\$850,000	\$2,550,000	
Total	\$1,111,111	\$1,111,111	\$1,111,111	\$3,333,333	

The state Developed Information Total Description					
Electric Budget Information Total Program					
Budget Category	Year 1	Year 2	Year 3	Total	
Program	\$108,086	\$108,086	\$108,086	\$324,259	
Implementation	. ,		. ,	. ,	
Portfolio Admin	\$80,064	\$80,064	\$80,064	\$240,192	
Incentives	\$612,489	\$612,489	\$612,489	\$1,837,467	
Total	\$800,639	\$800,639	\$800,639	\$2,401,918	
ComEd (72.2%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Program	\$78,073	\$78,073	\$78,073	\$234,218	
Implementation	·	·	·	·	
Portfolio Admin	\$57,832	\$57,832	\$57,832	\$173,495	
Incentives	\$442,412	\$442,412	\$442,412	\$1,327,236	
Total	\$578,316	\$578,316	\$578,316	\$1,734,949	
Ameren (27.8%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Program	\$30,014	\$30,014	\$30,014	\$90,041	
Implementation	, , , ,	, , .	, , .	, , , ,	
Portfolio Admin	\$22,232	\$22,232	\$22,232	\$66,697	
Incentives	\$170,077	\$170,077	\$170,077	\$510,232	
Total	\$222,323	\$222,323	\$222,323	\$666,969	

Estimated Budget (cont.)

Gas Budget Informa	tion Total Program			
Budget Category	Year 1	Year 2	Year 3	Total
Program Implementation	\$41,914	\$41,914	\$41,914	\$125,741
Portfolio Admin	\$31,047	\$31,047	\$31,047	\$93,142
Incentives	\$237,511	\$237,511	\$237,511	\$712,533
Total	\$310,472	\$310,472	\$310,472	\$931,415
Ameren (15.9%)				
Budget Category	Year 1	Year 2	Year 3	Total
Program Implementation	\$6,670	\$6,670	\$6,670	\$20,010
Portfolio Admin	\$4,941	\$4,941	\$4,941	\$14,822
Incentives	\$37,797	\$37,797	\$37,797	\$113,390
Total	\$49,407	\$49,407	\$49,407	\$148,222
NICOR (53.2%)				
Budget Category	Year 1	Year 2	Year 3	Total
Program Implementation	\$22,285	\$22,285	\$22,285	\$66,854
Portfolio Admin	\$16,507	\$16,507	\$16,507	\$49,522
Incentives	\$126,280	\$126,280	\$126,280	\$378,840
Total	\$165,072	\$165,072	\$165,072	\$495,215
People's Gas (25.0%	·			
Budget Category	Year 1	Year 2	Year 3	Total
Program Implementation	\$10,495	\$10,495	\$10,495	\$31,484
Portfolio Admin	\$7,774	\$7,774	\$7,774	\$23,321
Incentives	\$59,469	\$59,469	\$59,469	\$178,407
Total	\$77,737	\$77,737	\$77,737	\$233,211
North Shore (5.9%)				
Budget Category	Year 1	Year 2	Year 3	Total
Program Implementation	\$2,464	\$2,464	\$2,464	\$7,393
Portfolio Admin	\$1,826	\$1,826	\$1,826	\$5,477
Incentives	\$13,965	\$13,965	\$13,965	\$41,896
Total	\$18,255	\$18,255	\$18,255	\$54,766

Savings Targets

	Yea	ar 1	Yea	r 2	Yea	ar 3	Tota	ıl
	MWh	MW	MWh	MW	MWh	MW	MWh	MW
Ameren (27.8%)	1,677	0.84	1,677	0.84	1,677	0.84	5,031	2.52
ComEd (72.2%)	4,150	1.91	4,150	1.91	4,150	1.91	12,451	5.73
Total Gross Electric Savings	5,827	2.75	5,827	2.75	5,827	2.75	17,482	8.25
Total Net Electric Savings (80% NTG)	4,662	2.20	4,662	2.20	4,662	2.20	13,986	6.60

	Year 1	Year 2	Year 3	Total
	Therms	Therms	Therms	Therms
Ameren (15.9%)	19,760	19,760	19,760	59,280
Nicor (53.2%)	81,006	81,006	81,006	243,017
Peoples (25.0%)	31,091	31,091	31,091	93,272
North Shore (5.9%)	7,301	7,301	7,301	21,904
Total Gross Gas Savings	139,157	139,157	139,157	417,472
Total Net Gas Savings (80% NTG)	111,326	111,326	111,326	333,978

It is assumed that the electricity and natural gas savings will occur in the year following the year in which the projects are funded to account for the time it takes developers to complete construction.

These savings estimates were developed from the following data which comes from the past three years of the Public Sector New Construction program, reduced by 15% to account for the increased energy efficiency required to meet the minimum code compliance under the most recent version of the Illinois Energy Conservation Code.

Estimated Annual Savings						
Therms/sf	Therms/sf MWh/sf MW/sf					
0.127	0.127 .0058 0.000003					

Other Program Metrics

	Statewide
TRC	0.87
TRC w/NEBs	0.96